STATE OF STA

ARS UNEVERSOR STREET

COUNTY CHRONOLOGY

Compiled from the Files of The Coconino Sun, Twenty Years Coconino Sun, Twenty Years
Ago This Week.

Tonto Basin, according to a writer in the University monthly, was once a great salt lake. This was during the tertiary era. There were then no Salt or Gila rivers. The lake was from 500 to a thousand feet deep. Tonto Basin lake was bounded on the west by the Four Peaks, or Mazatal range, on the east by the Sierra Anches mountains, on the north by a low range of slate mountains and on the south by dikes and many parallel ranges of mountains. The country adjoining the Tonto Basin also aboundedifn small lakes, but all were drained by an uplift and erosion. The Lake Tonto was in the form of a right angle, one side extending northward up what is now known as Tonto creek for a distance of about 24 miles, and varied in width from 12 to 15 miles. The side extended eastward up what is now Salt river and had about the same length and depth as the northern arm. The greatest depth of the lake was about 1,000 feet. After it had been filled with water it overflowed the Silver King mountain barrier and began to cut a channel west-ward. Then the channel of the Salt river was a thousand feet higher than

U. S. senate committee reports territories of Arizona and New Mexico not yet fit for statehood.

Special election submitting the proposition of water works bonds and sewer bonds resulted in carrying of former and defeat of latter.

Flagstaff needs and must have a high school.

George Babbitt spending 10 days in Los Angeles.

Sheriff J. A. Johnson home from visit in northern California.

Wm. Bach, Beaver Creek rancher, visiting his former home in Missouri

Mrs. Lucinda Jones, wife of Milton Jones and sister of Mrs. Henry Dietzman and Mrs. W. H. Nichols, dies.

J. C. Moritz and family have moved from Bellemont to Flagstaff.

D. M. Francis home from a month's visit in Missouri.

F. W. Smith of Williams sells his drug business to a California man who also buys the Williams Drug Co. and consolidates the two stores.

R. F. Alsop returns from Ashfork and buys Front street barber shop.

J. D. Raudebaugh and family return from visit in Kansas.

Mrs. Eva Wheeler is seriously ill with pneumonia.

T. E. Pulliam's family leaves for Los Angeles to spend the winter.

F. & A. M. elect following officers: T. J. Conlter, W. M.; A. E. Douglas, S. W.; Harry Fulton, J. W.; T. E. Pollock, Treas.; F. S. Breen, Sec.

EXPERTS CLAIM FLAGSTAFF WATER IS BEST IN WORLD AND A PLENTIFUL SUPPLY

(Continued from Page One.)

only 65 per cent of the water from per cent loss is due to sewer flushing, leaks, under registration of me-ters, etc. Pressure tests were made by the engineers at 48 places throughout the town, with the discovery that 14 hydrants in higher portions of the town were entirely without water pressure, due to the small pipe lines. These tests were made when the large reservoir was full of water.
Five Water Sources Investigated

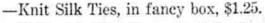
The engineers investigated thoroughly five sources of supply, making analysis of water, estimates of cost with maps, tests and reports on feas-

The Switzer Canyon impounding reservoir would necessitate a dam 1200 feet long and 35 feet high and would form a lake of 51 acres with an average depth of 7.4 feet when full and a total storage of 165 million gallons. The objectionable features that cause its elimination are necessity of filtration because of organic matter and its low elevation, thus making a pumping plant necessary. The shallow depth, too, is a serious

present spring supply, and consider- seems quite porous.







-Knit and Silk Ties with Silk Handkerchief to match in individual box, set, \$1.50.

-New Grenadine knit or cut Silk Tie with Pongee drawn silk Handkerchiefs to match, in box, set,

-Knit silk Ties with diagonal weave, hand embroidered dots, floral designs and figures, 95c to \$2.50.

-- Hand-made narrow and medium width four-inhand Ties, silk, 75c to \$1.50.

-Grenadine knit Ties, in Christmas boxes, 95c to \$1.25.

"Eight Wonders of the World," a wonderful new Tie, eight different sets of ties, each displaying a different weave and design. Must be seen to be appreciated, at \$1.50.

—Tie Clasps, many designs and patterns, 75c.

-Handkerchiefs, fancy borders, 35c, 3 for \$1.00; pure Irish Linen, 50c, 75c, \$1.00; pure Irish Linen, initials, 3 in box, \$1.50; Silk Pongee, drawn thread, fancy, \$1.00; white Silk Pongee, very new, \$1.50.

-"Raywell" make dress gloves, cape leather, dark brown, silk lined, \$2.50.

-"Raywell" make, Cordovan color, best grade of leather, and very much the thing for dress wear, \$3.00 and \$3.50.

-"Raywell" make, wool lined dress gloves, for winter wear, warm and dressy, \$2.00 and \$2.50.

—"Raywell" make, fur lined, \$5.00.

—Imported Scotch wool gloves with clasp, \$1.50. -Armor Plate brand men's Hose, black and

brown, very fine silk fibre, 65c. Fancy Silk Hose, some with clocks and stripes,

different weights, all colors, \$1.15 and \$1.25. -Wool dress hose, all colors, 85c.

—Pure cassimere sock with silk stripe, \$1.65.

-"Thermo" coat style Sweater, virgin wool, 2 pocket style, several colors, \$6.00.

-"Lamb Knit", 4-pocket style, belted back, all wool, fine selection of colors, \$7.50.

-Heavy knit "rough necks" in pull-over and coat styles, all colors, \$9.85.

"Travelo" Sweater Vests, pure wool, assorted colors, \$6.00.

—Men's leather house slippers, \$3.50.

—Men's felt house slippers, \$1.95.

—Bath Robes—All patterns and attractive colors, \$5 to \$15. The better grades have girdle or heavy belt, 3 large patch pockets and bound with silk

-Very fine Madras Shirts, silk stripes, Wilson Bros. make, \$3.00.

-Wilson Bros. make, silk and linen in assorted patterns, very well made, \$5.00.

 Pure silk, crepe de chine, broadcloth and jersey, up to the minute, \$6.85.

-Flannel Shirts, gray and heather, \$2.45.

-Aeroplane cloth Shirts, white and tan, with or without collar, \$3.50.

—Madras and percales, all colors, \$1.45 to \$2.50.

—Pongee Silk Shirts, the best to be had, \$6.00.

-Gray flannel Shirts with collar attached, fine grade, \$4.00.

—Leather Traveling Sets, \$5.00 to \$11.00.

—Military Brushes in Leather Cases, \$3.50.

-Artpoint Pencils, nickel plated, \$1.00; silver plated, \$1.50; bronze, \$1.50; green and white gold, \$3.50.

—Men's leather bill fold, \$1.00 to \$4.00.

—Ingersoll Watches in different designs, \$1.50.

—Stick Pins in leatherette boxes, \$2.50.

—Gold Knife, makes a desirable present, \$2.50.

-Cuff Links, in leatherette box, \$1.50 to \$2.50.

—Belt Buckles, sterling silver, 95c to \$2.50. —Leather Hand Bags, 18 inches long, cloth lined,

\$6.95. Other grades in full leather up to \$18.50.

-Suit Cases, 24 in, long; black cow-hide, straps, cloth lined, a big value at \$12.50. Others up to \$18.50.

Fancy brushed wool Mufflers, assorted colors,

-Dependable Suspenders, in fancy boxes, variety of colors, 75c to \$1.25.

-Army Band and Garter Sets, all colors, per

—Suspender and Garter Sets, in box, \$1.25 and \$2.

-Tie Rings, very nifty looking, \$1.50.

FLAGSTAFF

MAIL ORDERS PROMPTLY ATTENDED TO.

ARIZONA

At the time of the inspection the lake had an average diameter of desirable. 620 feet and a storage of about 20

shallow depth would soon estagnate leakage. The Crater Lake water is and, would furthe require filtration, the run-off from a large area some country. Its purity and coldness is an asset that Flagstaff citizens should difficult to overcome objectionable which is grazed, and consequently which is grazed, and consequently would give millions for such water. Wells at Fort Valley were investigated, records made of the water level of this silt settles out, but the water in each, depth of water bearing strata and volume of water being se use without purification. The areas for water to Flagstaff, meeting the water to flagstaff. cured. The gravel beds were of small ity of Crater Lake is estimated by thickness and of too limited dimen its owners at 150 million gallons. The sions for an ample supply. Even if depth to get this capacity would have the quantity of the supply was unto be about 40 feet. The lake was fillquestioned, the quality of the water ed to about 18 feet last spring when would condemn this as a safe source the leak developed. The lake is well and 13 inches steel line with carrying to adopt. The analysis shows a hardness thirteen times as high as the that point the lava and ash deposit pacity is needed to provide an excess permanent construction.

Our knowledge of such reservoirs Crater Lake development has been on this character of soil is that it Crater Lake development has been on this character of soil is that it in progress for years and has frequently been mentioned as a source of use without lining the bottom and reservoir, and justifies our recommenwater supply. It was up for consideration in 1914 before the present large prevent laukage, but to preserve the million gallons to tide over dry years reservoir and the second pipe line to the springs was constructed. The actual development of the Crater Lake domestic use. Our estimate of the

from the financial side it is even less

The shallow depth, too, is a serious objection.

Fort Valley Reservoir only requires a low dam 18½ high and produces a storage of 167 million gallons, but at the shallow average depth of 4½ feet.

The shallow average depth of 4½ feet.

The shallow depth was 10½ feet shallow depth would soon estagnate shallow depth would for the capable of a much larger development the question of improving the water of 6-inch, 1.2 miles of 5 inch, 3½ miles of 2 inch, 3½ miles of 1 inch, a total of 1 inch, a t be seen from details of the report is The collecting lines when enlarged and improved, will bring an abundant supply of water to Flagstaff, meeting for many years the following the reservoir to town, which will be replaced by a larger line. About 5 2-3 miles of these larger re-inforced feeder mains should be for many years the future require. installed, thereby giving a good uniments for both the city and the Santa Fe R. R.

The two small vitrified supply lines storage of 100 million gallons in less than one months' time.

This, from an engineering stand-

through the west rim of the lake.

The lake is eleven miles northwest of Flagstaff at an elevation of 8200 like annot be recommended and the plant.

The lake is eleven miles northwest of Flagstaff at an elevation of 8200 like annot be recommended and the plant.

The lake is eleven miles northwest of play it cannot be recommended and the plant.

The lake is eleven miles northwest of financing the proposition either in so-called schools.

The lake is eleven miles northwest of financing the proposition either in so-called schools.

Where they's a will there's usual

The pipe distribution system is lamentably weak in being small lines The present spring supply as will with consequent inadequate pressure, be, Not counting the supply lines the dis-

The improvements cutlined about are all essential and will give Flagfrom the springs to the reservoir stall and the Santa Fe an abundant need replacing by installation of a 14 supply of good pure water at proper and 13 inches steel line with carrying capacity of 4,800,000 gallons. This cabased on first-class materials with

The summarized estimates of cost

project consists of 2.75 miles of colgraph of the Crater Lake
cost of making this supply available
lecting ditches, 1.7 miles of 8-inch
slip-joint steel pipe, 465 feet of intake
tunnel through the east rim of the
lake and 500 feet of outlet tunnel

This, from an engineering standvoluminous report which covered evcost of making this supply available
cost of making this supply available
cost of making this supply available
when a well-balanced plant is being
point is the proposed improvements to the water system, there was
planned. None of the main features
should be disproportionate in capactunnel through the east rim of the
lake and 500 feet of outlet tunnel

The place
rente a considerable point is the proposed improvements to the water system, there was
planned. None of the main features
should be disproportionate in capacpoint is the proposed improvements to the water system, there was
planned. None of the main features
should be disproportionate in capacpoint is the proposed improvements to the water system, there was
discussion by Engineer Davenport,
should be disproportionate in capacpoint is the proposed improvements to the water system, there was
discussion by Engineer Davenport,
should be disproportionate in capacpoint is the proposed improvements to the water system, there was
discussion by Engineer Davenport,
should be disproportionate in capacpoint is the proposed improvements to the water of the proposed improvements to the proposed improvements t

whole or in part and as to what the

approval of the Santa Fe people as

WARNS AGAINST RECENT MISLEADING ADVERTISING

The United States Civil Service commission says that there have been brought to its attention numerous misleading advertising circulars and newspaper advertisements of certain so-called civil service schools.

A Valuable Christmas Present is a scholarship in the Lamson Business College, 28 West Washington Street, Phoenix, Arizona. Every Christmas during the past 33 years

of all the improvements including col-lecting system, of head work, 14-ineh flow line, 50 million gallon reservoir, supply line from reservoir to town, 52-3 miles larger feeder lines in dis-tellecting system, of head work, 14-ineh hounced and that it is not known at this time when it will be necessary to hold an examination of the kind. When one is to be held it will be duly announced.

cidentals is \$472,398.

At the conclusion of reading of the voluminous report which covered every feature of the proposed improve-

The commission points out that def-

attitude of the Santa Fe people would inite and authentic information re garding pending examinations may al-There was no division of opinion on ways be obtained from any of its lo-

so-called civil service schools.

In these circulars and advertisements, information is given that a railway postal clerk examination is soon to be held. The commission states soon to be held. The commission states too, a few years later these same one is to be held it will be duly an- daughters to whom they gave the

12 weeks

we will know who eats the peanuts.

WHISTLE By GOSH If the sculptors keep on making

statutes of Abraham Lincoln, nobody will know how Lincoln looked.

Home is where the present day

STOP, LOOK AND:

laughter has gone down town from. You see a lot of old familiar faces now, since skirts have been lengthen-

A good deal of this talk about wo-men being possessed of great busi-ness acumen has sprung up in various omes after the housewife has preided all day in the apron booth of the charity bazaar and emerged with-out being more than two dollars short.

How times do change. Most of the hepherd boys of romance and poetry vere singing a good share of the time.

The only way I could ever fool my vife was in telling her the plain unvarnished truth. I think it numbed her mental faculties until I could nake my getaway.

A really progressive metropolitan ewspaper these days is the one which urnishes its readers with a card index o help them keep up with all the murler mysteries appearing in its col-

Another objection we have to the derby hat is that it is coming back. It always does.

A prominent physician writes that people do not need as much sleep as is commonly supposed. That is for-unate. Most people do not get as much sleep as is commonly supposed.

One of the hardest things in the world to do is to really help anybody. A great many industrious helpers would find the task easier, however, if they wouldn't try to help people who don't want to be helped

Perhaps you wonder what has become of a lot of folks who used to toot their own horns. Well, they are broadcasting now.

If ice cream made freckles, and hanging on front gates produced rheumatism, as a scientist claims, what a bunch of homely, crippled damels there would be.

Our idea of a real tightwad is the ellow who, when you return his box matches, can shake the box and ell by the sound whether you borrowed more than one match.

"I never 'lowed I was any worse than the average gent," disgruntedly nid Gap Johnson of Rumpus Ridge, but every time one of the children cuts up wife yells at him, 'You're jest like yer Paw!' And there's fourteen of the little cusses, each with his spe-cial brand of devilment."

Our idea of a wise guy is the fel-low who hid his "Sunday suit" and felt hat in the garage the day the committee was out to rustle clothing for a rummage sale.

Many people worry so much about tomorrow that they forget today.

Some people are always surprised that things did not turn out worse. The bloomin' salesman can demonstrate with it for three months and t's still a new car-but three days af-

ter you buy it, it's a "used car. Home is where you run in for a moment to put on a clean collar.

The burning question with most men at this time of the year is wheth-er they can make their supply of socks last until Christmas when the gift supply comes in.

Our idea of luxury is to have an ex-tra back collar button, after the used one rolls under the dresser.

One of the mysteries of the day is now the two words political and econ-

Where they's a will there's usually an inheritance tax.

Some people are like cull apples. They have one side that looks pretty

Some people are so suspicious that they won't buy a gold fish without worrying for fear it will turn to brass.

Shakespeare was the first man to use the word "hurry" and he also coined the word "dwindle."

We notice that a man doesn't talk about his humble start until he gets to a point where it is no longer necessary to be humble. A man who doesn't know enough to

shut the door in December ought to live in a grape arbor.

The saddest sight in the world is a short man wishing he was taller. What a lucky thing it is that moths

haven't appetites like elephants. It is much better to do your duty than explain why you didn't.

One who evidently knows says that hornets hold the record for supplying the most experience in the least time. A scientist has discovered a way of showing the movies in the light. Now

The place most useful for a permanent wave is in a flag.